

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF PUBLIC WATER SUPPLIES

PUBLIC WATER SUPPLY DATA SHEET

County and Supply Ogle - Polo 1410500

Date Inspected November 14, 1984 Plant phone 815/946-2914

Operator George Salter COIRC, Supt. Phone 815/946-3942 (Home)

Other officials (Title) William Saunders, Mayor Phone 815/946-3514 (City Hall)

Delmar Pontnal, Wtr Commissioner; Noralee Gray, Phone
Clerk

Emergency Address Police Department Phone 815/946-3412

Send mail to Mayor and Council, City Hall, Polo, IL 61064

Interviewed George Salter, Mike Ganther

Brief description of supply: Water obtained from two drilled wells discharge to
ground storage, repumped, fluoridated then discharged to distribution and elevated storage.

Class C supply

No. of services: Direct 1063 - 100 % metered

Satellite 0 - 0 % metered

Adequacy of Supply

Annual Pumpage	<u>85,992,500</u>	Gal.	Production Capacity	<u>0.98</u>	MGD
Av. Daily pumpage	<u>235,596</u>	Gal.	Max. av. Daily Pumpage	<u>261,300</u>	Gal.
Est. Population	<u>2603</u>		Av. Daily per Capita Consumption	<u>91</u>	Gal.
Time Required to Produce Av. Daily Consumption				<u>5.8</u>	Hrs.
Time Required to Produce Mx. Av. Daily Consumption				<u>6.3</u>	Hrs.
Large Consumers	<u>Central Quality</u>				Av. Gal./Day
Ground Tank 150K; Elevated 90K					

Emergency water and Power Sources: Right angle drive on well pump 3 and an engine driven high service pump.

CRB:ted

EPA Region 5 Records Ctr.



The following checked items were considered during the survey. The corresponding remarks and recommendations for corrections are in accordance with the Illinois Environmental Protection Act, related laws, regulations, standards or accepted practices. *Deficiencies noted on evaluation letter.

#	X	ITEM	#	X	ITEM	#	X	ITEM
1	X	WELL/SOURCE	9		SEDIMENTATION	17	X	TESTING
2	X	Cl FEED	10		FILTRATION	18	X	SAFETY
3	X	F FEED/METER	11	X	PUMPS (OTHER)	19	X	BACT. QUALITY
4	X	CHEM. FEED (OTHER)	12	X	STORAGE	20	X	CHEM. QUALITY
5		SOFTENING	13	X	DIST. (X-CONN)	21	X	REPORTS/RECORDS
6		AERATION	14	X	PERMITS/NPDES	22	X	ADEQUACY
7		MIX/CLARIFY	15	X	OWNER/FINANCIAL	23		
8		FLOCCULATION	16	X	OPERATOR CERT.	24		

Free Chlorine Residual 0.0 mg/l, Distribution/Plant.

ITEM REMARKS AND RECOMMENDATION FOR CORRECTIONS

1. 180 gpm pump replaced in well #2. Oil lube line on well #3 replaced. #3 is rated at 500 gpm. Well discharge is not metered, however, hour clocks have been installed.
2. -Chlorine exemption granted.
3. * An anti siphon valve has not been installed on the fluoride discharge line.
4. Phosphate feed has been discontinued.
11. The southwest 500 gpm high service pump is normally operated. A 300 gpm engine driven pump is operated monthly.
12. The 150,000 gallon ground tank was cleaned in 1984. The roof was replaced in 1983. Elevated storage is insufficient.
13. A cross connection control ordinance has been adopted. Hydrants are flushed two times each year. Most valveboxes are located and exposed, however, a valve exercise program has not been started. Outside recording meters are being considered.
14. * An operating permit for Salter Heights Subdivision has not been obtained.
17. Fluoride tests have improved significantly. Tests are run three times each week.
19. * One raw, one finished and two distribution samples have been analyzed each period during the past year. Thirteen samples indicated bacterial contamination. Check samples were submitted when required. Three distribution and one raw water samples are required to be analyzed each month.

ITEM REMARKS AND RECOMMENDATION FOR CORRECTIONS

20. The adjusted fluoride ion content averaged 1.0 mg/l during the past 12 months. Iron content was 0.2 mg/l, hardness was 311 mg/l. All other contaminants were below their respective maximum allowable contaminant levels.
21. Operational reports are complete and are submitted regularly. Bacterial and chemical analysis results are also kept on file.
22. The water system is adequate to produce the maximum average daily demand; however, when well 3 is out of service the remaining well cannot meet that demand, which was 261,000 gpd in 1984. Well #2 was reported to produce 180 gpm or 259,000 gpd. The construction of an additional well of comparable production would provide an adequate supply of water during peak demand conditions with one well out of service. It is anticipated that the additional source capacity would improve the fire flow capabilities of the system.

BDH/t1